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- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Declarations under Rule 4.17:

as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE,

(54) Title: ANTISENSE COMPOUNDS TARGETED TO CONNEXINS AND METHODS OF USE THEREOF

(57) Abstract: Methods and compositions for modulating the activities of connexins are provided, including, for example, for use in post-surgical, trauma, or tissue engineering applications. These compounds and methods can be used therapeutically, for example, to reduce the severity of adverse effects associated diseases and disorders where localized disruption in direct cell-cell communication is desirable.

2005/0

Intern: I Application No PCT/IB2004/004431

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| | o International Patent Classification (IPC) or to both-national classification | ation and IPC | |
| | SEARCHED ocumentation searched (classification system followed by classification) | on symbols) | |
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| Documenta | tion searched other than minimum documentation to the extent that s | uch documents are included in the fields sea | irched |
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| X Furt | ner documents are listed in the continuation of box C. | X Patent family members are listed in | annex. |
| * Special car | tegories of cited documents : | T", later document published after the interr | national filing date |
| "A" docume | ent defining the general state of the art which is not ered to be of particular relevance | or priority date and not in conflict with the cited to understand the principle or the invention | ne application but ony underlying the |
| "E" earlier d | locument but published on or after the international | "X" document of particular relevance; the cla | imed invention |
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| citation | is cited to establish the publication date of another or other special reason (as specified) | "Y" document of particular relevance; the cla cannot be considered to involve an inve | entive step when the |
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| Name and m | nailing address of the ISA | Authorized officer | |
| | European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk | | |
| | Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 | Andres, S | • |
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Intern 31 Application No
PCT/IB2004/004431

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International application No. PCT/IB2004/004431

INTERNATIONAL SEARCH REPORT

| Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet) | |
|--|---|
| This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons: | |
| 1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely: | |
| Although claims 1-65 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition. | |
| 2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically: | |
| 3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a). | |
| Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet) | |
| This International Searching Authority found multiple inventions in this international application, as follows: | |
| | |
| see additional sheet | |
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| | ļ |
| 1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims. | |
| 2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. | |
| | |
| 3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.: | |
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| | |
| 4. X No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: | |
| Invention 1.: claims 1-64, 67, 68 (all partially) and claim 65 | |
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| Remark on Protest The additional search fees were accompanied by the applicant's protest. | |
| No protest accompanied the payment of additional search fees. | |
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FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

Invention 1.: claims 1-64,67,68 (all partially) and claim 65

Use of antisense oligonucleotides against SEQ ID 12 (connexin 43) in methods for enhancing healing of wounds associated with surgical procedures on the eye or the central nervous system.

Inventions 2. to 4.: Claims 1-64,67,68 (all partially)

As for subject 1., but concerning the connexins 26 (SEQ ID 22), 37 (SEQ ID 14) and 30 (SEQ ID 26) respectively.

Invention 5.: Claims 1-64,67-68 (all partially) and claim 66

As for subject 1., but concerning connexin 31.1 (SEQ ID 25).

Inventions 6. to 19.: Claims 1-6,9-14,16-64,67,68 (all partially)

As for subject 1., but concerning the connexins defined by SEQ IDs 13, 15-21, 23, 24 and 27-31 respectively.

Information on patent family members

Intern Il Application No PCT/IB2004/004431

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